

=> fil casreact

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FILE CONTENT:1840 - 9 Jul 2006 VOL 145 ISS 2

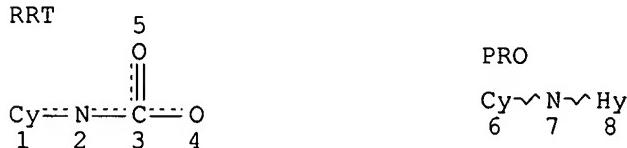
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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d sta que 12  
 L1 STR



NODE ATTRIBUTES:

CONNECT IS E2 RC AT 7  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L2 140 SEA FILE=CASREACT SSS FUL L1 ( 1518 REACTIONS)

100.0% DONE 1090410 VERIFIED 1518 HIT RXNS ( 4 INCOMP) 140 DOCS  
 SEARCH TIME: 00.00.20

=> d bib abs fhit retable tot

L48 ANSWER 1 OF 2 CASREACT COPYRIGHT 2006 ACS on STN  
 AN 141:332212 CASREACT  
 TI Preparation of aminopyrimidinyl-substituted thiazoles useful as inhibitors

of protein kinases

IN Farmer, Luc J.; Harrington, Edmund Martin; Salituro, Francesco G.; Wang, Jian

PA Vertex Pharmaceuticals Incorporated, USA

SO PCT Int. Appl., 76 pp.

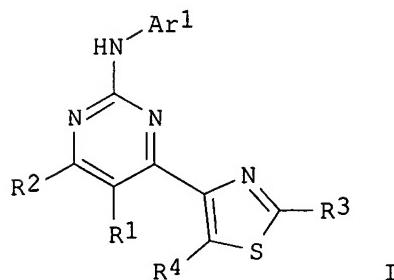
CODEN: PIIXD2

DT Patent

LA English

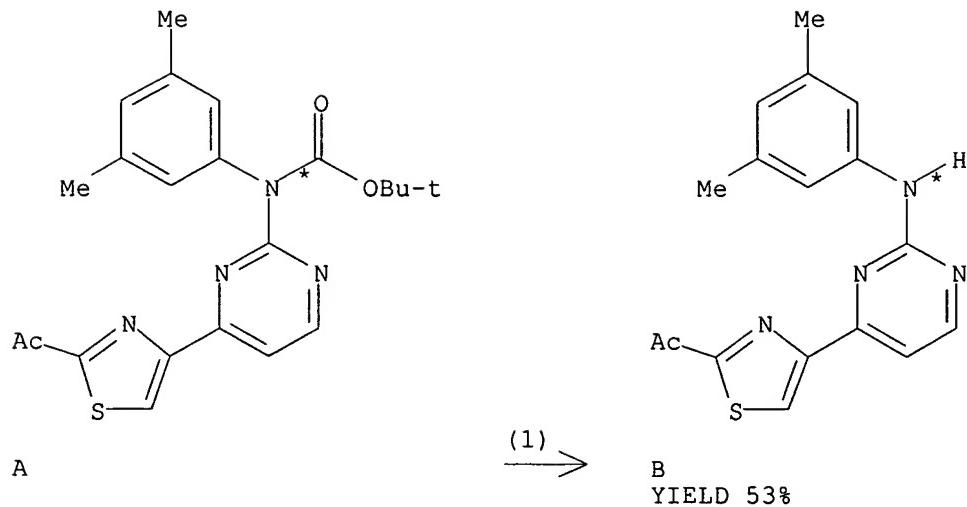
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004087698	A2	20041014	WO 2004-US9061	20040325
	WO 2004087698	A3	20041209		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2004225965	A1	20041014	AU 2004-225965	20040325
	CA 2523125	AA	20041014	CA 2004-2523125	20040325
	US 2004235834	A1	20041125	US 2004-809944	20040325
	EP 1610793	A2	20060104	EP 2004-758287	20040325
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK			
PRAI	US 2003-457218P		20030325		
	WO 2004-US9061		20040325		
OS	MARPAT	141:332212			
GI					



AB Title compds. I [R1-2 = halo, CN, NO<sub>2</sub>, etc.; Ar1 = aryl, etc.; R3-4 = ZR7; Z = bond, alkylidene; R7 = halo, NO<sub>2</sub>, CN, alkoxy, etc.] are prepared. General procedures are provided, e.g., [4-[2-((3,5-dimethylphenyl)amino)pyrimidin-4-yl]thiazol-2-yl]methanol. Selected example compds. of the invention exhibit Ki < 5 μM for Syk kinase. I are useful for the treatment of autoimmune disorders.

RX(1) OF 113      ...A ==> B



RX(1) RCT A 883967-53-1  
 RGT C 76-05-1 F3CCO<sub>2</sub>H  
 PRO B 769933-80-4  
 SOL 75-09-2 CH<sub>2</sub>Cl<sub>2</sub>  
 CON 1 hour, room temperature  
 NTE analogs similarly prepared

L48 ANSWER 2 OF 2 CASREACT COPYRIGHT 2006 ACS on STN  
 AN 141:225319 CASREACT  
 TI Process for preparation of N-heteroaryl-N-aryl-amines  
 IN Snoonian, John R.; Oliver-Shaffer, Patricia-Ann  
 PA Vertex Pharmaceuticals Incorporated, USA  
 SO PCT Int. Appl., 64 pp.

CODEN: PIXXD2

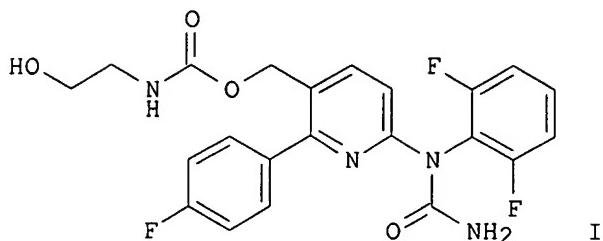
DT Patent

LA English

FAN.CNT 1

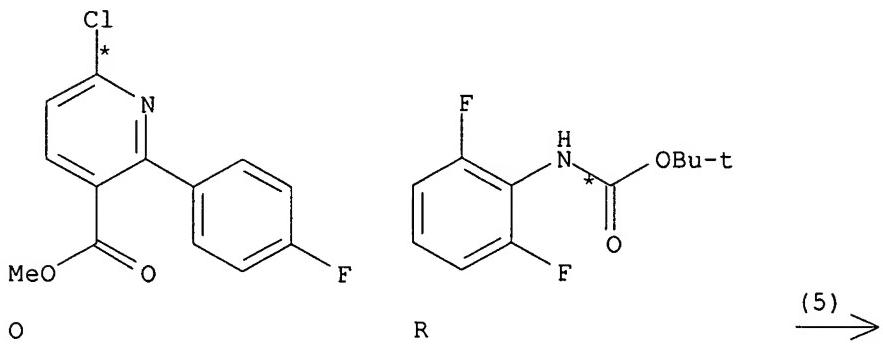
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004072038	A1	20040826	WO 2004-US3933	20040210
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU	2004212494	A1	20040826	AU 2004-212494	20040210
CA	2515669	AA	20040826	CA 2004-2515669	20040210
US	2004230058	A1	20041118	US 2004-775687	20040210
EP	1603878	A1	20051214	EP 2004-709916	20040210
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN	1761653	A	20060419	CN 2004-80007137	20040210
NO	2005004201	A	20051006	NO 2005-4201	20050909

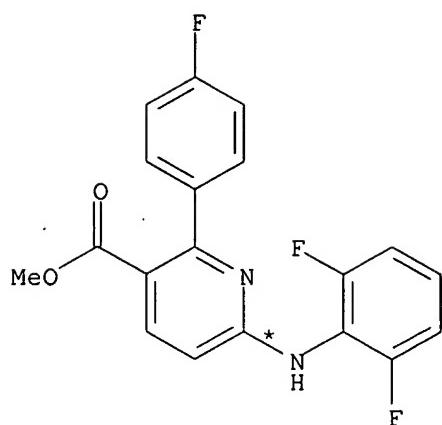
PRAI US 2003-446641P 20030210  
 US 2003-474272P 20030528  
 WO 2004-US3933 20040210  
 OS MARPAT 141:225319  
 GI



AB The present invention relates to a process for producing diarylamine derivs. with general formula of Ar1-NH-Ar2 [wherein Ar1 and Ar2 = independently (un)substituted aryl or heteroaryl] or salts thereof, which comprises coupling a compound of formula Ar1-X [where X = a leaving group] with an amine of formula Ar2-NH-Y [where Y = CO<sub>2</sub>Z; Z = alkyl, PhCH<sub>2</sub>, Fmoc, etc.] in the presence of an alkali metal salt or a transition metal catalyst. For example, the compound I was prepared starting from 6-chloro-2-(4-fluorophenyl)nicotinic acid Me ester (preparation given) and N-(tert-butoxycarbonyl)-2,6-difluoroaniline.

RX(5) OF 37 ...O + R ==> S...





S

RX(5)

## STAGE(1)

RGT T 98327-87-8 Phosphine, [1,1'-binaphthalene]-2,2'-diylbis[diphenyl-  
CAT 3375-31-3 Pd(OAc)2  
SOL 108-88-3 PhMe  
CON SUBSTAGE(1) 2 hours, room temperature -> 50 deg C  
SUBSTAGE(2) 50 deg C -> 30 deg C

## STAGE(2)

RCT O 745833-06-1, R 745833-17-4  
RGT U 7778-53-2 K3PO4  
CON SUBSTAGE(2) overnight, 100 deg C

## STAGE(3)

RGT V 76-05-1 F3CCO2H  
SOL 75-09-2 CH2Cl2  
CON SUBSTAGE(2) overnight

PRO S 745833-08-3

NTE workup

&gt; d bib abs fhit retable tot 147

L47 ANSWER 1 OF 3 CASREACT COPYRIGHT 2006 ACS on STN  
AN 139:331783 CASREACT

TI Synthesis, spectral and magnetic studies of mononuclear and binuclear Mn(II), Co(II), Ni(II) and Cu(II) complexes with semicarbazone ligands derived from sulfonamide

AU Saleh, A. A.; Khalil, S. M. E.; Eid, M. F.; El-Ghamry, M. A.

CS Department of Chemistry, Faculty of Education, Ain Shams University, Cairo, Egypt

SO Journal of Coordination Chemistry (2003), 56(6), 467-480

CODEN: JCCMBQ; ISSN: 0095-8972

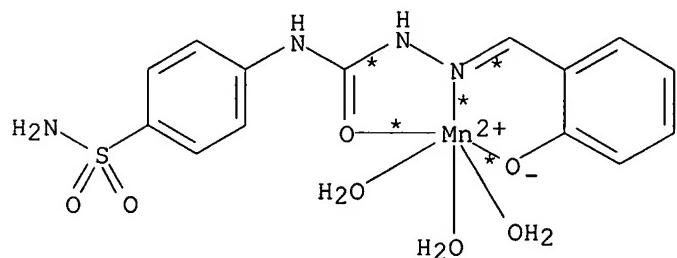
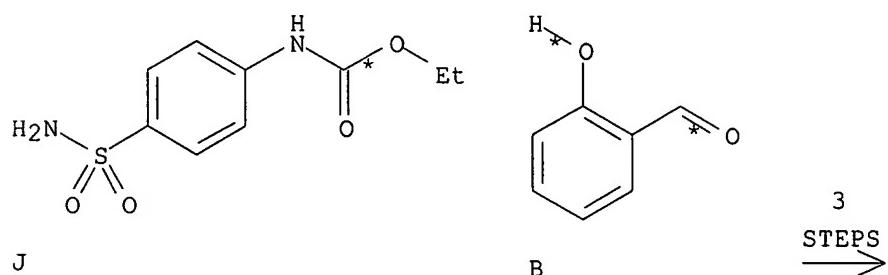
PB Taylor & Francis Ltd.

DT Journal

## LA English

**AB** Mononuclear and binuclear Mn(II), Co(II), Ni(II) and Cu(II) complexes of new semicarbazone ligands derived from sulfonamide were synthesized and characterized by elemental anal. and IR spectra. In mononuclear complexes, the semicarbazone behaves as a monoanionic terdentate or neutral terdentate ligand towards the metal ion. However, in binuclear complexes, it behaves as a monoanionic terdentate towards one of the bivalent metal ions and monoanionic bidentate ligand towards the other metal ion in the same complex. Electronic spectra and magnetic susceptibility measurements of the solid complexes indicated octahedral geometry around Mn(II), Co(II) and Ni(II) and square planar around the Cu(II) ion. These geometries were confirmed by the results obtained from thermal analyses. The antifungal properties of the ligands and their complexes were studied.

RX(44) OF 79 COMPOSED OF RX(5), RX(1), RX(7)  
RX(44) J + B ==> N



● Cl<sup>-</sup>

● 3 H<sub>2</sub>O

N

RX (5) RCT J 41104-55-6  
RGT K 7803-57-8 N2H4-H2O  
PRO A 87013-80-7

SOL 68-12-2 DMF  
 CON SUBSTAGE(1) room temperature  
 SUBSTAGE(2) 4 hours, reflux

RX(1) RCT A 87013-80-7, B 90-02-8  
 PRO C 613221-31-1  
 SOL 68-12-2 DMF  
 CON 1 hour, reflux  
 NTE product depends on time of refluxing

RX(7) RCT C 613221-31-1

STAGE(1)  
 RGT O 1310-65-2 LiOH  
 SOL 7732-18-5 Water, 64-17-5 EtOH  
 CON 30 minutes, room temperature

STAGE(2)  
 RGT P 7773-01-5 MnCl<sub>2</sub>  
 SOL 7732-18-5 Water  
 CON 5 hours, room temperature

PRO N 613221-35-5

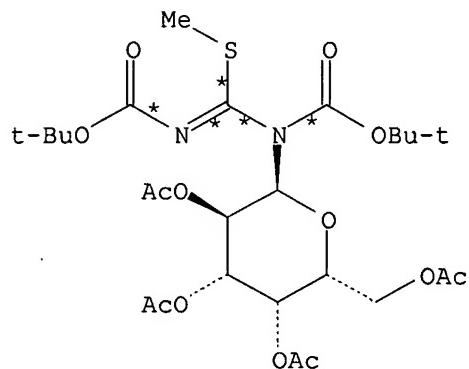
## RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File
Biradar, N	1971	33	2451	J Inorg Nucl Chem	CAPLUS
Cotton, F	1961	83	4175	J Am Chem Soc	
Dhakarey, R	1985	32	35	J Chin Chem Soc	CAPLUS
Eugenio, J	1999	18	2483	Polyhedron	CAPLUS
Hathaway, B	1970	5	143	Coord Chem Rev	CAPLUS
Hueso, F	1999	18	351	polyhedron	
Ismail, T	2000	43	227	Egypt J Chem	CAPLUS
Khalil, S	2000	52	73	J Coord Chem	CAPLUS
Kulkarni, Y	1990	67	46	J Indian Chem Soc	CAPLUS
Lever, A	1968			Inorganic Electronic	
Nakamoto, K	1980		258	Infrared and Raman S	
Probhakaran, C	1998	75	7	J Indian Chem Soc	
Saleh, A	1990	29	2132	J Inorg Chem	CAPLUS
Satapathy, S	1970	32	2223	J Inorg Nucl Chem	CAPLUS
Satpathy, K	1986	68	377	J Indian Chem Soc	
Saxena, A	1981	43	3091	J Inorg Nucl Chem	CAPLUS
Singh, A	1996	73	339	J Indian Chem Soc	
Sonar, G	1995	72	677	J Indian Chem Soc	
West, D	1993	49	123	Coord Chem Rev	

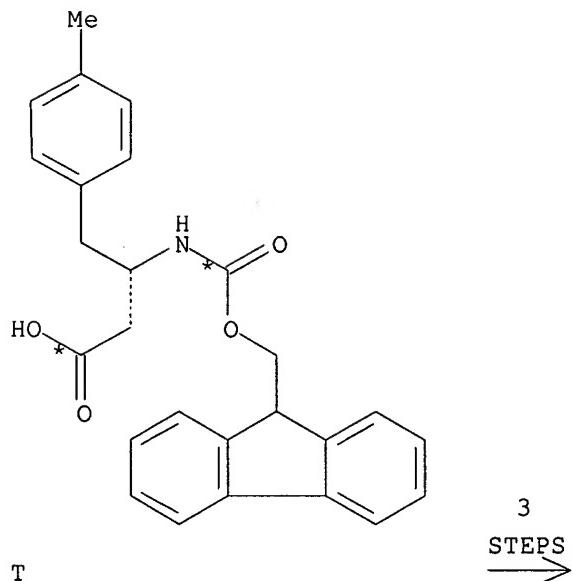
L47 ANSWER 2 OF 3 CASREACT COPYRIGHT 2006 ACS on STN  
 AN 139:7095 CASREACT  
 TI Syntheses of guanidinoglycosides with the inventive use of Mitsunobu conditions and 1,8-diazabicyclo[5.4.0]undec-7-ene  
 AU Lin, Peishan; Heng, Sabrina Cher Hui; Sim, Mui Mui  
 CS Institute of Molecular and Cell Biology, Singapore, 117609, Singapore  
 SO Synthesis (2003), (2), 255-261  
 CODEN: SYNTBF; ISSN: 0039-7881  
 PB Georg Thieme Verlag  
 DT Journal  
 LA English  
 AB A series of novel guanidinoglycosides was successfully synthesized. This

was accomplished with the use of Mitsunobu conditions as a strategy to convert the glycopyranose anomeric hydroxy group to give the corresponding substituted masked guanidines in high yields. Subsequent deprotection and coupling with Fmoc protected  $\beta$ -amino acid, afforded a series of N,N'-substituted-methylisothioureas. Cleavage of Fmoc followed by concomitant cyclization was achieved with a catalytic amount of DBU to give the guanidinoglycosides.

RX(32) OF 41 COMPOSED OF RX(3), RX(11), RX(6)  
RX(32) I + T ==> AA

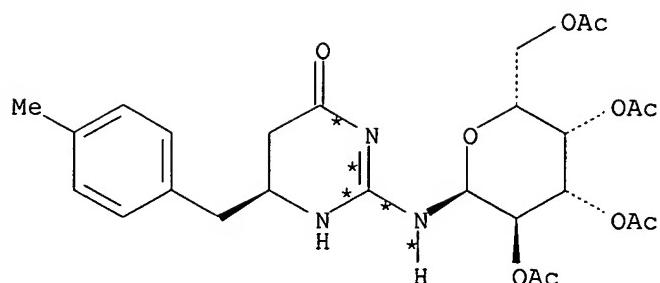


I



T

3  
STEPS  
→



AA  
YIELD 45%

RX(3) RCT I 535952-55-7

STAGE(1)

RGT L 76-05-1 F3CCO2H  
SOL 75-09-2 CH2Cl2, 100-66-3 PhOMe  
CON 15 minutes, 0 deg C

STAGE(2)

SOL 110-54-3 Hexane

STAGE(3)

SOL 67-56-1 MeOH

STAGE(4)

RGT M 144-55-8 NaHCO3  
CON neutralized

PRO K 535952-59-1

RX(11) RCT T 270062-97-0

STAGE(1)

RGT V 2592-95-2 1-Benzotriazolol, W 693-13-0 i-PrN:C:NPr-i  
SOL 127-19-5 AcNMe2, 75-09-2 CH2Cl2  
CON 10 minutes, room temperature

STAGE(2)

RCT K 535952-59-1  
RGT X 7087-68-5 EtN(Pr-i)2  
SOL 75-09-2 CH2Cl2  
CON 24 hours, room temperature

PRO Z 535952-62-6

NTE stereoselective

RX(6) RCT Z 535952-62-6  
RGT AB 6674-22-2 DBU

PRO AA 535952-67-1

SOL 109-99-9 THF

CON 1 hour, room temperature

NTE stereoselective

RETABLE

Referenced Author	Year   VOL   PG	Referenced Work	Referenced
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(RAU)	(R PY)	(R VL)	(R PG)	(R WK)	File
Baker, T	2000	165	19054	J Org Chem	CAPLUS
Bu, X	2002	143	2419	Tetrahedron Lett	CAPLUS
Cotner, E	1998	163	1737	J Org Chem	CAPLUS
Delaware, D	1986	139	251	J Antibiot	CAPLUS
Dodd, D	1994	135	977	Tetrahedron Lett	CAPLUS
Dodd, D	1998	139	5701	Tetrahedron Lett	CAPLUS
Feichtinger, K	1998	163	3804	J Org Chem	CAPLUS
Feichtinger, K	1998	163	8432	J Org Chem	CAPLUS
Gololobov, Y	1981	137	437	Tetrahedron	CAPLUS
Hughes, D	1996	128	127	Org Prep Proced Int	CAPLUS
Kim, H	1999	12	193	Synlett	
Lemieux, R	1948	13	337	Adv Carbohydr Chem	CAPLUS
Lin, P	2001	66	8243	J Org Chem	CAPLUS
Magri, N	1988	51	298	J Nat Prod	CAPLUS
Maurin, M	2001	45	2977	Antimicrob Agents Ch	CAPLUS
Metcalf, C	1998	139	3435	Tetrahedron Lett	CAPLUS
Mitsunobu, O	1981		1	Synthesis	CAPLUS
Molina, P	1994		1197	Synthesis	CAPLUS
Mori, Y	1999	40	7239	Tetrahedron Lett	CAPLUS
Ouyang, X	1999	55	8295	Tetrahedron	CAPLUS
Reitz, A	1989	32	2110	J Med Chem	CAPLUS
Roush, W	1994	128	4935	Tetrahedron Lett	
Sheppeck, J	2000	41	5329	Tetrahedron Lett	CAPLUS
Wade, J	1991	14	194	Pept Res	CAPLUS

L47 ANSWER 3 OF 3 CASREACT COPYRIGHT 2006 ACS on STN

AN 138:361747 CASREACT

TI Synthesis and antimicrobial activity of copper-, cobalt- and nickel(II) complexes with Schiff bases

AU Jadegoud, Y.; Ijare, Omkar B.; Mallikarjuna, N. N.; Angadi, S. D.; Mruthyunjayaswamy, B. H. M.

CS Department of Chemistry, Gulbarga University, Gulbarga, 585 106, India

SO Journal of the Indian Chemical Society (2002), 79(12), 921-924

CODEN: JICSAH; ISSN: 0019-4522

PB Indian Chemical Society

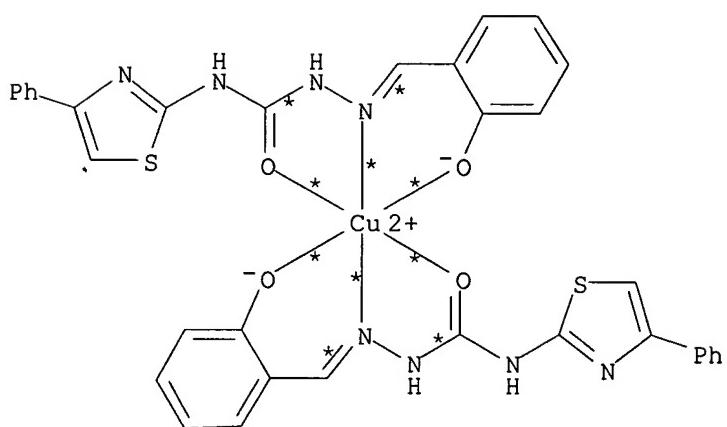
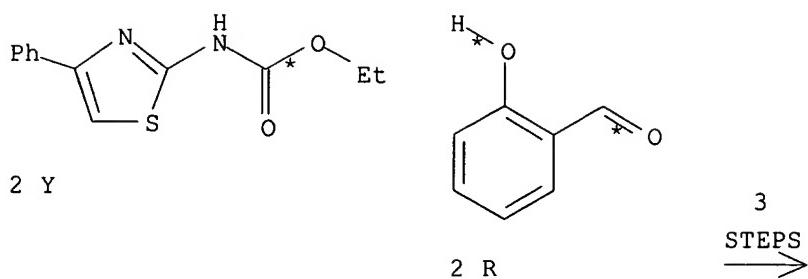
DT Journal

LA English

AB A few complexes of CuII, CoII and NiII were prepared by reacting their metal(II) chlorides with 3-(4'-phenylthiazole-2'-yl)-1-(2'-hydroxy-1'-iminomethylphenyl)urea and with 3-(4'-phenylthiazole-2'-yl)-1-(2',4'-dihydroxy/2'-hydroxy-5'-chloro-1'-methyliminomethylphenyl)ureas (Schiff bases) in EtOH medium. The chelates are colored solids and nonelectrolytes ML2. The IR spectra of the ligands and complexes suggest involvement of o-hydroxy group, carbonyl group, azomethine group in bonding through O and N atoms resp. The electronic spectra and magnetic data suggest the octahedral stereochem. for all the complexes in which metal(II) ion exhibits coordination number six. The ligands and complexes were tested for their antimicrobial activity.

RX(31) OF 48 COMPOSED OF RX(14), RX(10), RX(1)

RX(31) 2 Y + 2 R ==&gt; B



B  
YIELD 88%

RX(14)	RCT	Y 3673-36-7
	RGT	AA 302-01-2 N2H4
	PRO	S 519141-81-2
	SOL	64-17-5 EtOH
	CON	5 hours, reflux

RX(10) RCT R 90-02-8, S 519141-81-2  
PRO A 519141-78-7  
CAT 7647-01-0 HCl  
SOL 64-17-5 EtOH  
CON 8 hours, reflux

RX(1) RCT A 519141-78-7

STAGE (1)  
 RGT C 7447-39-4 CuCl<sub>2</sub>  
 SOL 64-17-5 EtOH  
 CON 2 hours, reflux

STAGE (2)  
RGT D 127-09-3 AcONa  
CON 3 hours, reflux

PRO B 519141-69-6

## RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (R WK)	Referenced File
Biradar, N	1971	33	2451	J Inorg Nucl Chem	CAPLUS
Chohan, Z	1998	28	1673	Synth React Inorg Me	CAPLUS
Deshpande, V	1986		2397	Angew Makromol Sci C	
Dey, K	1999	38	1139	Indian J Chem, Sect	
Dilworth, I	1976	21	29	Coord Chem Rev	
Dodson, R	1945	67	2242	J Am Chem Soc	CAPLUS
Dunn, T	1960			The Visible and Ultr	
Durig, J	1967	23	1121	Spectrochim Acta	CAPLUS
Dutta, R	1985	44	635	J Sci Ind Res	CAPLUS
Feggis, B	1966			Introduction to Liga	
Freedman, H	1961	83	2900	J Am Chem Soc	CAPLUS
Hiremath, A	1982	59	1017	J Indian Chem Soc	
Hiremath, A	1984	61	191	J Indian Chem Soc	CAPLUS
Holm, R	1966	7	83	Prog Inorg Chem	CAPLUS
Ibrahim, K	1993	32	361	Indian J Chem, Sect	
Kato, M	1964	64	99	Chem Rev	CAPLUS
Krishna, C	1977	39	1253	J Inorg Nucl Chem	
Mane, R	1983	22	81	Indian J Chem, Sect	
Pelizzi, C	1980		1970	J Chem Soc, Dalton T	CAPLUS
Prabhakaran, C	1980	20	474	Indian J Chem Sect A	
Rajashekhar, G	1998	10	306	Asian J Chem	
Rastogi, D	1979	8	97	J Coord Chem	
Tahir, A	2000	39	450	Indian J Chem, Sect	
Thaker, B	1996	35	483	Indian J Chem, Sect	
Tijmir, H	1983	2	723	Polyhedron	

=> => fil reg

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STRUCTURE FILE UPDATES: 11 JUL 2006 HIGHEST RN 892124-43-5  
 DICTIONARY FILE UPDATES: 11 JUL 2006 HIGHEST RN 892124-43-5

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<http://www.cas.org/ONLINE/UG/regprops.html>

=> d que 169  
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 L50 583318 SEA FILE=HCAPLUS ABB=ON PLU=ON "ALKALI METAL SALTS"+OLD,NT/CT

L51 635713 SEA FILE=HCAPLUS ABB=ON PLU=ON (L49 OR L50)  
 L52 89263 SEA FILE=HCAPLUS ABB=ON PLU=ON TRANSITION METAL?/CT  
 L53 8286 SEA FILE=HCAPLUS ABB=ON PLU=ON ("TRANSITION METALS, USES"/CT  
     OR "TRANSITION METALS, USES AND MISCELLANEOUS"/CT)  
 L54 669385 SEA FILE=HCAPLUS ABB=ON PLU=ON (L51 OR L52 OR L53) AND  
     (PY<=2003 OR PRY<=2003 OR AY<=2003)  
 L55 14006 SEA FILE=HCAPLUS ABB=ON PLU=ON L54 AND HET?/SC,SX  
 L56 155 SEA FILE=HCAPLUS ABB=ON PLU=ON L55 AND ("COUPLING AGENTS"+OLD  
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     T)  
 L57 76 SEA FILE=HCAPLUS ABB=ON PLU=ON L55 AND "COUPLING REACTION  
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 L58 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L55 AND ("COUPLING REACTION  
     ENTHALPY"+OLD,NT/CT OR "COUPLING REACTION KINETICS"+OLD,NT/CT  
     OR "COUPLING REACTIONS"/CT)  
 L59 175 SEA FILE=HCAPLUS ABB=ON PLU=ON (L56 OR L57 OR L58)  
 L60 120 SEA FILE=HCAPLUS ABB=ON PLU=ON L59 AND HET?/SC  
 L62 TRANSFER PLU=ON L60 1- RN : 4093 TERMS  
 L63 4093 SEA FILE=REGISTRY ABB=ON PLU=ON L62  
 L64 STR

Cy~^N~^Hy  
 1   2   3

#### NODE ATTRIBUTES:

CONNECT IS E2 RC AT 2  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

#### GRAPH ATTRIBUTES:

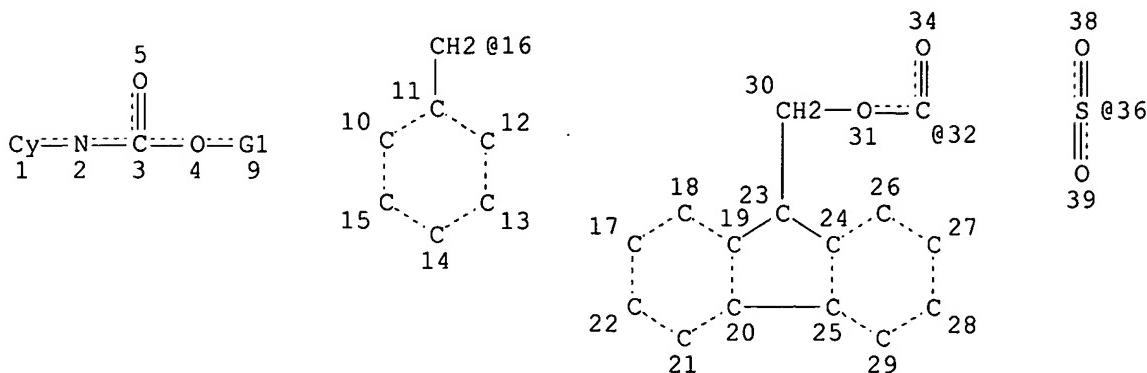
RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 3

#### STEREO ATTRIBUTES: NONE

L69 616 SEA FILE=REGISTRY SUB=L63 SSS FUL L64

=> d que 174  
 L49 69304 SEA FILE=HCAPLUS ABB=ON PLU=ON ALKALI METAL?/CT  
 L50 583318 SEA FILE=HCAPLUS ABB=ON PLU=ON "ALKALI METAL SALTS"+OLD,NT/CT  
 L51 635713 SEA FILE=HCAPLUS ABB=ON PLU=ON (L49 OR L50)  
 L52 89263 SEA FILE=HCAPLUS ABB=ON PLU=ON TRANSITION METAL?/CT  
 L53 8286 SEA FILE=HCAPLUS ABB=ON PLU=ON ("TRANSITION METALS, USES"/CT  
     OR "TRANSITION METALS, USES AND MISCELLANEOUS"/CT)  
 L54 669385 SEA FILE=HCAPLUS ABB=ON PLU=ON (L51 OR L52 OR L53) AND  
     (PY<=2003 OR PRY<=2003 OR AY<=2003)  
 L55 14006 SEA FILE=HCAPLUS ABB=ON PLU=ON L54 AND HET?/SC,SX  
 L56 155 SEA FILE=HCAPLUS ABB=ON PLU=ON L55 AND ("COUPLING AGENTS"+OLD  
     ,NT/CT OR "COUPLING FACTORS"/CT OR "COUPLING REACTION"+OLD,NT/C  
     T)  
 L57 76 SEA FILE=HCAPLUS ABB=ON PLU=ON L55 AND "COUPLING REACTION  
     CATALYSTS"+OLD,NT/CT  
 L58 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L55 AND ("COUPLING REACTION  
     ENTHALPY"+OLD,NT/CT OR "COUPLING REACTION KINETICS"+OLD,NT/CT  
     OR "COUPLING REACTIONS"/CT)  
 L59 175 SEA FILE=HCAPLUS ABB=ON PLU=ON (L56 OR L57 OR L58)  
 L60 120 SEA FILE=HCAPLUS ABB=ON PLU=ON L59 AND HET?/SC  
 L62 TRANSFER PLU=ON L60 1- RN : 4093 TERMS

L63 4093 SEA FILE=REGISTRY ABB=ON PLU=ON L62  
 L66 STR



VAR G1=AK/16/32/36/CY

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

L74 30 SEA FILE=REGISTRY SUB=L63 SSS FUL L66

=> d his

(FILE 'HOME' ENTERED AT 08:25:28 ON 12 JUL 2006)  
 SET COST OFF

FILE 'CASREACT' ENTERED AT 08:25:48 ON 12 JUL 2006  
 ACT ZINNA775B/A

-----  
 L1 STR  
 L2 140 SEA FILE=CASREACT SSS FUL L1 ( 1518 REACTIONS)

-----  
 ACT ZINNA775A/Q

-----  
 L3 STR

-----  
 L4 STR L3

L5 3 S L4 SAM SUB=L2

L6 139 S L4 FUL SUB=L2

SAV L6 ZINNA775E/A

L7 1 S L2 AND (SNOONIAN? OR OLIVER? OR SHAFFER?) /AU

L8 1 S L6 AND (SNOONIAN? OR OLIVER? OR SHAFFER?) /AU

L9 2 S L2,L6 AND VERTEX? /PA,CS

L10 2 S L7-L9

L11 106 S L2 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)

ACT ZINNA775C/A

-----  
 L12 ( 4892)SEA FILE=CASREACT ABB=ON PLU=ON ("TRANSITION METAL ALLOYS"/CT  
 L13 ( 17604)SEA FILE=CASREACT ABB=ON PLU=ON (ALKALI OR TRANSITION)(L)META  
 L14 17604 SEA FILE=CASREACT ABB=ON PLU=ON (L12 OR L13)

L15 2358 S ALKALI METAL?/CT  
L16 4892 S TRANSITION METAL?/CT  
L17 3 S L11 AND L15,L16  
L18 2 S L17 NOT L10  
E COUPLING/CT  
L19 2 S E4-E8 AND L11  
L20 1 S L10 AND L17,L19  
L21 2 S L10,L20  
L22 3 S L17-L20 NOT L21  
L23 101 S L11 NOT L21,L22

FILE 'HCAPLUS' ENTERED AT 08:35:42 ON 12 JUL 2006  
ACT ZINNA775D/A

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L24 ( 1) SEA FILE=HCAPLUS ABB=ON PLU=ON US20040230058/PN OR US2004-775  
L25 ( 16) SEA FILE=HCAPLUS ABB=ON PLU=ON ("SNOONIAN J R"/AU OR "SNOONIA  
L26 ( 4) SEA FILE=HCAPLUS ABB=ON PLU=ON ("OLIVER SHAFFER PATRICA ANN"/  
L27 ( 23) SEA FILE=HCAPLUS ABB=ON PLU=ON ("OLIVER P"/AU OR "OLIVER P A"  
L28 ( 13) SEA FILE=HCAPLUS ABB=ON PLU=ON ("OLIVER PATRICIA"/AU OR "OLIV  
L29 ( 24) SEA FILE=HCAPLUS ABB=ON PLU=ON ("SHAFFER P"/AU OR "SHAFFER P  
L30 ( 2) SEA FILE=HCAPLUS ABB=ON PLU=ON "SHAFFER PATRICIA"/AU  
L31 ( 683) SEA FILE=HCAPLUS ABB=ON PLU=ON VERTEX?/PA,CS  
L32 ( 759 SEA FILE=HCAPLUS ABB=ON PLU=ON (L24 OR L25 OR L26 OR L27 OR L  
-----  
L33 1 S L24 AND US20040230058/PN  
SEL RN

FILE 'REGISTRY' ENTERED AT 08:36:31 ON 12 JUL 2006

L34 29 S E1-E29  
L35 16 S L34 NOT NC5/ES  
L36 14 S L35 NOT C6/ES

FILE 'HCAPLUS' ENTERED AT 08:38:28 ON 12 JUL 2006

FILE 'CASREACT' ENTERED AT 08:38:42 ON 12 JUL 2006  
L37 159260 S L36  
L38 2 S L37 AND L21  
L39 1 S L37 AND L22  
L40 2 S L22 NOT L39  
L41 75 S L23 AND L37

FILE 'REGISTRY' ENTERED AT 08:41:20 ON 12 JUL 2006

L42 11 S L36 AND (PD OR RB OR CS OR K OR NA)/ELS  
L43 3 S L36 NOT L42  
L44 1 S L43 AND H5NO

FILE 'HCAPLUS' ENTERED AT 08:42:11 ON 12 JUL 2006

FILE 'CASREACT' ENTERED AT 08:42:24 ON 12 JUL 2006  
L45 60 S L42,L44 AND L23  
L46 5 S L21,L22 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)  
L47 3 S L46 NOT L21

FILE 'CASREACT' ENTERED AT 08:44:03 ON 12 JUL 2006  
L48 2 S L46 NOT L47

FILE 'HCAPLUS' ENTERED AT 08:47:03 ON 12 JUL 2006  
E ALKALI METAL/CT  
E ALKALI METAL?/CT  
L49 69304 S ALKALI METAL?/CT

E ALKALI METAL/CT  
 E ALKALI METAL SALT/CT  
 L50 583318 S E4+OLD,NT  
 L51 635713 S L49,L50  
 E TRANSITION METAL/CT  
 L52 89263 S TRANSITION METAL?/CT  
 E TRANSITION METALS, /CT  
 L53 8286 S E18,E19  
 L54 669385 S L51-L53 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)  
 L55 14006 S L54 AND HET?/SC,SX  
 E COUPLING/CT  
 L56 155 S L55 AND (E6+OLD,NT OR E14 OR E21+OLD,NT)  
 L57 76 S L55 AND E58+OLD,NT  
 L58 3 S L55 AND (E66+OLD,NT OR E67+OLD,NT OR E72)  
 L59 175 S L56-L58  
 L60 120 S L59 AND HET?/SC  
 L61 55 S L59 NOT L60

FILE 'REGISTRY' ENTERED AT 08:56:48 ON 12 JUL 2006

FILE 'HCAPLUS' ENTERED AT 08:56:49 ON 12 JUL 2006  
 L62 TRA L60 1- RN : 4093 TERMS

FILE 'REGISTRY' ENTERED AT 08:56:54 ON 12 JUL 2006  
 L63 4093 SEA L62  
 L64 STR  
 L65 34 S L64 SAM SUB=L63  
 L66 STR L4  
 L67 0 S L66 SAM SUB=L63  
 L68 50 S L66  
 L69 616 S L64 FUL SUB=L63  
 SAV L69 ZINNA775F/A

FILE 'HCAPLUS' ENTERED AT 08:59:19 ON 12 JUL 2006  
 L70 9 S L69 (L) PREP+NT/RL  
 L71 5 S L70 AND L60  
 L72 3 S L70 AND L42,L44

FILE 'REGISTRY' ENTERED AT 09:01:20 ON 12 JUL 2006  
 L73 50 S L66 SAM  
 L74 30 S L66 FUL SUB=L63  
 SAV L74 ZINNA775G/A

FILE 'HCAPLUS' ENTERED AT 09:02:01 ON 12 JUL 2006  
 L75 2 S L74 AND L70  
 L76 3 S L72,L75  
 L77 2 S L71 NOT L76  
 L78 1 S L70 AND VERTEX?/PA,CS  
 L79 1 S L70 AND (SNOONIAN? OR OLIVER/ OR SHAFFER?)/AU  
 L80 1 S L78,L79  
 L81 5 S L76-L80  
 L82 5 S L81 AND L32,L33,L49-L61,L70-L72,L75-L81  
 L83 4 S L70 NOT L82

FILE 'REGISTRY' ENTERED AT 09:05:24 ON 12 JUL 2006

=> fil hcaplus  
 FILE 'HCAPLUS' ENTERED AT 09:05:40 ON 12 JUL 2006  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 12 Jul 2006 VOL 145 ISS 3  
 FILE LAST UPDATED: 11 Jul 2006 (20060711/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

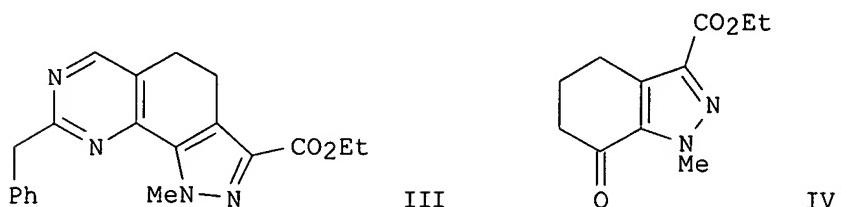
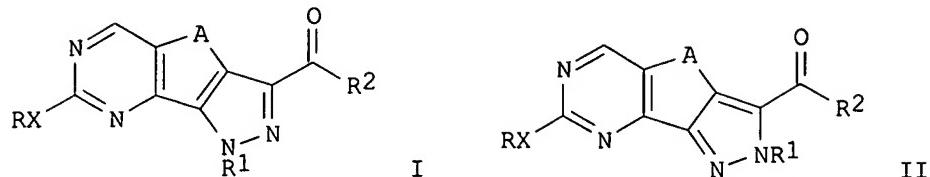
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 182 bib abs hitrn fhitstr retable

L82	ANSWER 1 OF 5	HCAPLUS	COPYRIGHT 2006 ACS on STN	
AN	2004:1037107	HCAPLUS		
DN	142:23304			
TI	Preparation of pyrazoloquinazolines as inhibitors of protein kinases such as Aurora2 for the treatment of proliferative disorders such as cancer, Alzheimer's disease, and autoimmune diseases			
IN	Traquandi, Gabriella; Brasca, Maria Gabriella; D'Alessio, Roberto; Polucci, Paolo; Roletto, Fulvia; Vulpetti, Anna; Pevarello, Paolo; Panzeri, Achille; Quartieri, Francesca; Ferguson, Ron; Vianello, Paola; Fancelli, Daniele			
PA	Pharmacia Italia S.A., Italy			
SO	PCT Int. Appl., 226 pp.			
	CODEN: PIXXD2			
DT	Patent			
LA	English			
FAN.CNT	1			
	PATENT NO.	KIND	DATE	APPLICATION NO.
PI	WO 2004104007	A1	20041202	WO 2004-EP50612
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			20040427 <--
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2004240772	A1	20041202	AU 2004-240772
	CA 2526578	AA	20041202	CA 2004-2526578
	EP 1636236	A1	20060322	EP 2004-741483
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			20040427 <--
	NO 2005005496	A	20060214	NO 2005-5496
PRAI	US 2003-472661P	P	20030522	<-- 20051121 <--

OS WO 2004-EP50612  
GI MARPAT 142:23304

W 20040427



AB Pyrazoloquinazolines I or II [A = CH<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>, CH<sub>2</sub>CMe<sub>2</sub>, CMe<sub>2</sub>CH<sub>2</sub>, CH:CH; R = H, (un)substituted amino, alkyl, cycloalkyl, aryl, aralkyl, heterocyclyl, heterocyclylalkyl; R<sub>1</sub> = H, (un)substituted alkyl, cycloalkyl, aryl, aralkyl, heterocyclyl, heterocyclylalkyl; R<sub>2</sub> = (un)substituted amino, (hydroxy)amino; R<sub>1</sub>R<sub>2</sub> = (CH<sub>2</sub>)<sub>2</sub>NH, (CH<sub>2</sub>)<sub>3</sub>NH; R<sub>3</sub> = H, (un)substituted alkyl, cycloalkyl, aryl, aralkyl, heterocyclyl, heterocycloalkyl; RNR<sub>3</sub> may also form a 5- or 6-membered heterocycle which may also contain a second heteroatom of N, O, or S; X = NR<sub>3</sub>, C(:O)NR<sub>3</sub>, NHC(:O)NH, O, S, SO<sub>2</sub>] such as pyrazolo[4,3-h]quinazoline III are prepared as inhibitors of protein kinases such as Aurora2 (and particularly cell cycle-dependent kinases) for the treatment of proliferative disorders such as cancer, Alzheimer's disease, viral infection, autoimmune diseases, and neurodegenerative disorders. Acid-catalyzed vinyl ether formation from 1,2-cyclohexanedione provides 2-ethoxy-2-cyclohexen-1-one; Claisen condensation with di-Et oxalate and cyclocondensation with Me hydrazine yields oxotetrahydroindazolecarboxylate IV. Dimethylaminomethylation of IV with DMF di-tert-Bu acetal, cyclocondensation with methylisothiourea sulfate, and substitution of the methylthio group with benzylzinc bromide in the presence of tetrakis(triphenylphosphine)palladium yields III. I are active as protein kinase inhibitors and therefore as inhibitors of cellular proliferation (no data). Detailed processes for the preparation of compds. I (and intermediates prepared within) are claimed.

IT 802534-91-4P 802534-99-2P 802535-27-9P  
802535-57-5P 802535-81-5P 802535-83-7P  
802537-13-9P 802537-15-1P 802537-24-2P  
802537-25-3P 802537-26-4P 802537-27-5P  
802537-28-6P 802537-29-7P 802537-30-0P  
802537-31-1P 802537-32-2P 802537-33-3P  
802537-34-4P 802537-35-5P 802537-36-6P  
802537-37-7P 802537-38-8P 802537-39-9P  
802537-92-4P 802537-93-5P 802537-94-6P  
802537-96-8P 802537-98-0P 802538-79-0P  
802539-63-5P 802539-65-7P 802539-70-4P  
802539-81-7P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic)

**preparation); THU (Therapeutic use); BIOL (Biological study);  
 PREP (Preparation); RACT (Reactant or reagent); USES (Uses)**  
 (drug candidate; preparation of pyrazoloquinazolines as inhibitors of  
 protein kinases such as Aurora2 for the treatment of proliferative  
 disorders such as cancer, Alzheimer's disease, and autoimmune diseases)

IT 802533-98-8P 802533-99-9P 802534-06-1P  
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 802534-35-6P 802534-38-9P 802534-39-0P  
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 802536-93-2P 802536-94-3P 802536-95-4P  
 802536-96-5P 802536-97-6P 802536-98-7P  
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation);  
 THU (Therapeutic use); BIOL (Biological study); PREP (Preparation)  
 ; USES (Uses)

(drug candidate; preparation of pyrazoloquinazolines as inhibitors of protein kinases such as Aurora2 for the treatment of proliferative disorders such as cancer, Alzheimer's disease, and autoimmune diseases)

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RL: PAC (Pharmacological activity); SPN (Synthetic preparation);  
 THU (Therapeutic use); BIOL (Biological study); PREP (Preparation)  
 ; USES (Uses)

(drug candidate; preparation of pyrazoloquinazolines as inhibitors of  
 protein kinases such as Aurora2 for the treatment of proliferative  
 disorders such as cancer, Alzheimer's disease, and autoimmune diseases)

IT 802540-06-3P 802540-07-4P 802540-08-5P  
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation);  
 THU (Therapeutic use); BIOL (Biological study); PREP (Preparation)  
 ; USES (Uses)

(drug candidate; preparation of pyrazoloquinazolines as inhibitors of protein kinases such as Aurora2 for the treatment of proliferative disorders such as cancer, Alzheimer's disease, and autoimmune diseases)

IT 802541-68-0P 802541-69-1P 802541-70-4P  
 802541-71-5P 802541-85-1P 802541-86-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of pyrazoloquinazolines as inhibitors of protein kinases such as Aurora2 for the treatment of proliferative disorders such as cancer, Alzheimer's disease, and autoimmune diseases)

IT 7440-05-3, Palladium, uses  
 RL: CAT (Catalyst use); USES (Uses)  
 (processes for the preparation of pyrazoloquinazoline protein kinase inhibitors)

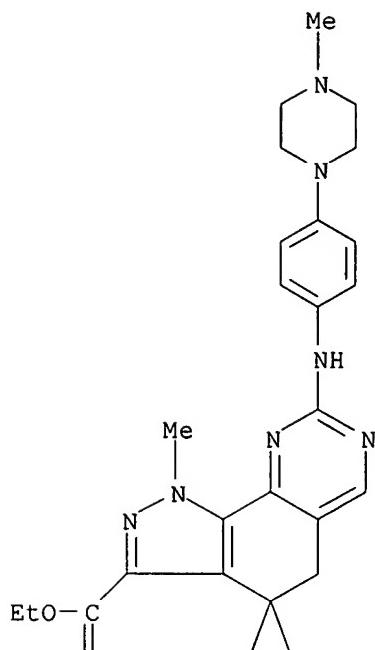
IT 534-17-8, Cesium carbonate 1336-21-6, Ammonium hydroxide 1907-33-1 4039-32-1, Lithium bis(trimethylsilyl)amide  
 RL: RGT (Reagent); RACT (Reactant or reagent)  
 (processes for the preparation of pyrazoloquinazoline protein kinase inhibitors)

IT 802534-91-4P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation);  
 PREP (Preparation); THU (Therapeutic use); PREP (Preparation);  
 PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (drug candidate; preparation of pyrazoloquinazolines as inhibitors of protein kinases such as Aurora2 for the treatment of proliferative disorders such as cancer, Alzheimer's disease, and autoimmune diseases)

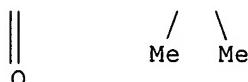
RN 802534-91-4 HCAPLUS  
 CN 1H-Pyrazolo[4,3-h]quinazoline-3-carboxylic acid, 4,5-dihydro-1,4,4-trimethyl-8-[(4-(4-methyl-1-piperazinyl)phenyl)amino]-, ethyl ester (9CI)

(CA INDEX NAME)

PAGE 1-A



PAGE 2-A



## RETABLE

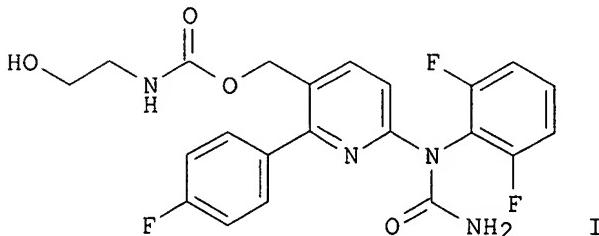
Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (R WK)	Referenced File
Clare, M	2003			WO 03070706 A	HCAPLUS
Goldberg, D	2002			US 2002119975 A1	HCAPLUS
Masferrer, J	2004			WO 2004014352 A	HCAPLUS

=&gt; d 182 bib abs hitstr retable 2-5

L82 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:696351 HCAPLUS  
DN 141:225319  
TI Process for preparation of N-heteroaryl-N-aryl-amines  
IN Snoonian, John R.; Oliver-Shaffer, Patricia-Ann  
PA Vertex Pharmaceuticals Incorporated, USA  
SO PCT Int. Appl., 64 pp.  
CODEN: PIXXD2  
DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004072038	A1	20040826	WO 2004-US3933	20040210 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU	2004212494	A1	20040826	AU 2004-212494	20040210 <--
CA	2515669	AA	20040826	CA 2004-2515669	20040210 <--
US	2004230058	A1	20041118	US 2004-775687	20040210 <--
EP	1603878	A1	20051214	EP 2004-709916	20040210 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN	1761653	A	20060419	CN 2004-80007137	20040210 <--
NO	2005004201	A	20051006	NO 2005-4201	20050909 <--
PRAI	US 2003-446641P	P	20030210	<--	
	US 2003-474272P	P	20030528	<--	
	WO 2004-US3933	A	20040210		
OS	CASREACT 141:225319; MARPAT 141:225319				
GI					



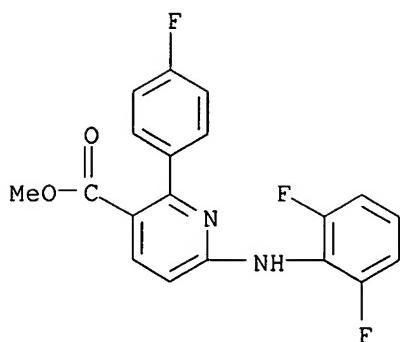
AB The present invention relates to a process for producing diarylamine derivs. with general formula of Ar1-NH-Ar2 [wherein Ar1 and Ar2 = independently (un)substituted aryl or heteroaryl] or salts thereof, which comprises coupling a compound of formula Ar1-X [where X = a leaving group] with an amine of formula Ar2-NH-Y [where Y = CO2Z; Z = alkyl, PhCH2, Fmoc, etc.] in the presence of an alkali metal salt or a transition metal catalyst. For example, the compound I was prepared starting from 6-chloro-2-(4-fluorophenyl)nicotinic acid Me ester (preparation given) and N-(tert-butoxycarbonyl)-2,6-difluoroaniline.

IT 745833-08-3P 745833-21-0P  
RL: IMF (Industrial manufacture); RCT (Reactant); SPN  
(Synthetic preparation); PREP (Preparation); RACT (Reactant  
or reagent)

(intermediate; preparation of N-heteroaryl-N-aryl-amines)

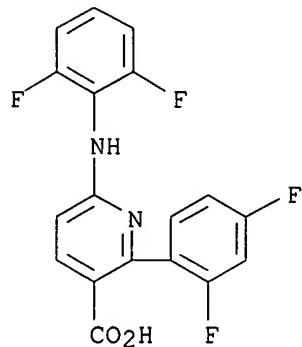
RN 745833-08-3 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-[(2,6-difluorophenyl)amino]-2-(4-fluorophenyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 745833-21-0 HCPLUS

CN 3-Pyridinecarboxylic acid, 2-(2,4-difluorophenyl)-6-[(2,6-difluorophenyl)amino]- (9CI) (CA INDEX NAME)



IT 7440-05-3, Palladium, uses

RL: CAT (Catalyst use); USES (Uses)  
(preparation of N-heteroaryl-N-aryl-amines)

RN 7440-05-3 HCPLUS

CN Palladium (8CI, 9CI) (CA INDEX NAME)

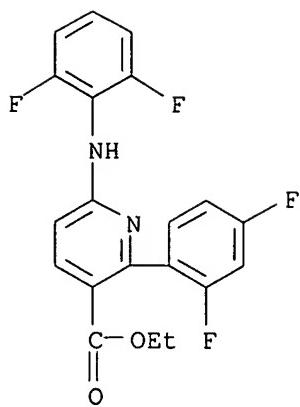
Pd

IT 745833-15-2P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
(preparation of N-heteroaryl-N-aryl-amines)

RN 745833-15-2 HCPLUS

CN 3-Pyridinecarboxylic acid, 2-(2,4-difluorophenyl)-6-[(2,6-difluorophenyl)amino]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

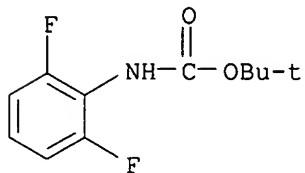


● HCl

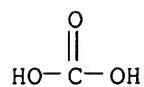
IT 1336-21-6, Ammonium hydroxide 745833-17-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of N-heteroaryl-N-aryl-amines)  
 RN 1336-21-6 HCPLUS  
 CN Ammonium hydroxide ((NH4)(OH)) (9CI) (CA INDEX NAME)

H<sub>4</sub>N-OH

RN 745833-17-4 HCPLUS  
 CN Carbamic acid, (2,6-difluorophenyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

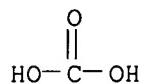


IT 497-19-8, Sodium carbonate, reactions 534-17-8, Cesium carbonate 584-08-7, Potassium carbonate 865-47-4  
 865-48-5 1310-73-2, Sodium hydroxide, reactions  
 7440-09-7D, Potassium, salts 7440-17-7D, Rubidium, salts  
 7440-46-2D, Cesium, salts 7778-53-2, Potassium phosphate  
 RL: RGT (Reagent); RACT (Reactant or reagent)  
 (preparation of N-heteroaryl-N-aryl-amines)  
 RN 497-19-8 HCPLUS  
 CN Carbonic acid disodium salt (8CI, 9CI) (CA INDEX NAME)



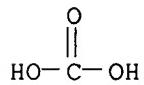
## ● 2 Na

RN 534-17-8 HCAPLUS  
 CN Carbonic acid, dicesium salt (8CI, 9CI) (CA INDEX NAME)



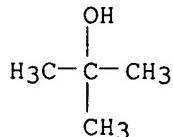
## ● 2 Cs

RN 584-08-7 HCAPLUS  
 CN Carbonic acid, dipotassium salt (8CI, 9CI) (CA INDEX NAME)



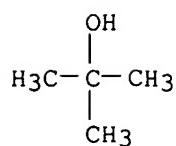
## ● 2 K

RN 865-47-4 HCAPLUS  
 CN 2-Propanol, 2-methyl-, potassium salt (9CI) (CA INDEX NAME)



## ● K

RN 865-48-5 HCAPLUS  
 CN 2-Propanol, 2-methyl-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 1310-73-2 HCPLUS  
 CN Sodium hydroxide (Na(OH)) (9CI) (CA INDEX NAME)

Na—OH

RN 7440-09-7 HCPLUS  
 CN Potassium (8CI, 9CI) (CA INDEX NAME)

K

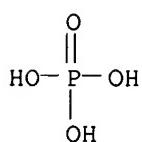
RN 7440-17-7 HCPLUS  
 CN Rubidium (8CI, 9CI) (CA INDEX NAME)

Rb

RN 7440-46-2 HCPLUS  
 CN Cesium (8CI, 9CI) (CA INDEX NAME)

Cs

RN 7778-53-2 HCPLUS  
 CN Phosphoric acid, tripotassium salt (8CI, 9CI) (CA INDEX NAME)

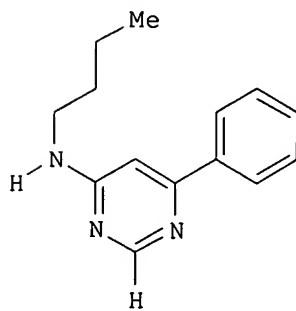


●3 K

L82 ANSWER 3 OF 5 HCPLUS COPYRIGHT 2006 ACS on STN  
 AN 2003:98255 HCPLUS  
 DN 138:287627  
 TI Suzuki Cross-Coupling of Solid-Supported Chloropyrimidines with

## Arylboronic Acids

AU Wade, Janice V.; Krueger, Clinton A.  
 CS ChemRx Division, Discovery Partners International Inc., South San Francisco, CA, 94080, USA  
 SO Journal of Combinatorial Chemistry (2003), 5(3), 267-272  
 CODEN: JCCHFF; ISSN: 1520-4766  
 PB American Chemical Society  
 DT Journal  
 LA English  
 OS CASREACT 138:287627  
 GI



AB The utility of the Suzuki cross-coupling to synthesize biaryl compds. is expanded herein to include reactions of resin-supported chloropyrimidines with boronic acids. In particular, an efficient method is described for the synthesis of a library of biaryl compds. from solid-supported chloropyrimidines. The Suzuki reaction was performed in an inert atmospheric using Pd2(dba)3/P(t-Bu)3 as catalyst, spray-dried KF as base, and THF as solvent. The reaction was allowed to proceed overnight at 50 °C. Upon cleavage with acid, a library of 4-(substituted amino)-6-arylpymidines, e.g. I, was obtained in moderate yield and high purity.

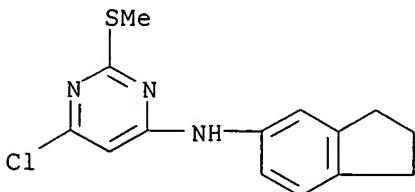
IT 503610-74-0DP, resin-supported 503610-79-5DP,  
 resin-supported

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(Suzuki cross-coupling of solid-supported chloropyrimidines with arylboronic acids)

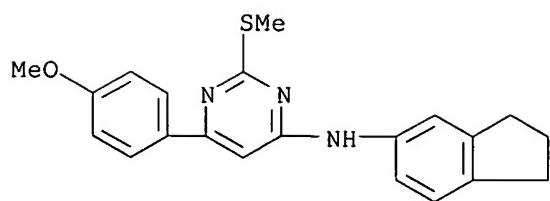
RN 503610-74-0 HCPLUS

CN 4-Pyrimidinamine, 6-chloro-N-(2,3-dihydro-1H-inden-5-yl)-2-(methylthio)-(9CI) (CA INDEX NAME)

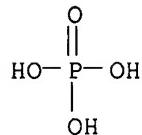


RN 503610-79-5 HCPLUS

CN 4-Pyrimidinamine, N-(2,3-dihydro-1H-inden-5-yl)-6-(4-methoxyphenyl)-2-(methylthio)-(9CI) (CA INDEX NAME)

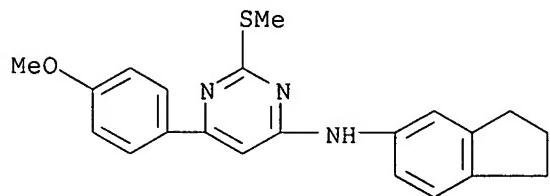


IT 7778-53-2, Tripotassium phosphate  
 RL: RGT (Reagent); RACT (Reactant or reagent)  
 (Suzuki cross-coupling of solid-supported chloropyrimidines with arylboronic acids)  
 RN 7778-53-2 HCPLUS  
 CN Phosphoric acid, tripotassium salt (8CI, 9CI) (CA INDEX NAME)

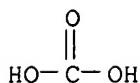


● 3 K

IT 503610-79-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (Suzuki cross-coupling of solid-supported chloropyrimidines with arylboronic acids)  
 RN 503610-79-5 HCPLUS  
 CN 4-Pyrimidinamine, N-(2,3-dihydro-1H-inden-5-yl)-6-(4-methoxyphenyl)-2-(methylthio)- (9CI) (CA INDEX NAME)



IT 497-19-8, Sodium carbonate, reactions  
 RL: RGT (Reagent); RACT (Reactant or reagent)  
 (failed reagent in the Suzuki cross-coupling of solid-supported chloropyrimidines with arylboronic acids)  
 RN 497-19-8 HCPLUS  
 CN Carbonic acid disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Albericio, F	1990	55	3730	J Org Chem	HCAPLUS
Boojamra, C	1997	62	1240	J Org Chem	HCAPLUS
Breitenbucher, J	2001	3	528	J Comb Chem	HCAPLUS
Breitenbucher, J	1998	39	1295	Tetrahedron Lett	HCAPLUS
Chang, Y	1999	6	361	Chem Biol	HCAPLUS
Ding, S	2002	124	1594	J Am Chem Soc	HCAPLUS
Ding, S	2001	42	8751	Tetrahedron Lett	HCAPLUS
Fantauzzzi, P	2000			Abstr Pap Am Chem Soc	
Franzen, R	2000	78	957	Can J Chem	HCAPLUS
Frenette, R	1994	35	9177	Tetrahedron Lett	HCAPLUS
Gronowitz, S	1986	26	305	Chem Scr	HCAPLUS
Hassan, J	2002	102	1359	Chem Rev	HCAPLUS
Jin, J	2001	3	97	J Comb Chem	HCAPLUS
Johnson, C	1998	54	4097	Tetrahedron	HCAPLUS
Littke, A	1998	37	3387	Angew Chem, Int Ed E	
Littke, A	2000	122	4020	J Am Chem Soc	HCAPLUS
Miyaura, N	1998	6	187	Adv Met Org Chem	HCAPLUS
Parrish, C	2001	66	3820	J Org Chem	HCAPLUS
Pourbaix, C	2001	3	803	Org Lett	HCAPLUS
Wade, J	2001			Abstr Pap Am Chem Soc	
Wolfe, J	1999	121	9550	J Am Chem Soc	HCAPLUS
Zhang, C	1999	64	3804	J Org Chem	HCAPLUS
Zhang, C	1999	64	3804	J Org Chem	HCAPLUS
Zhang, T	1999	40	15813	Tetrahedron Lett	HCAPLUS

L82 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1993:625947 HCAPLUS

DN 119:225947

TI Method of synthesis of 1-(2',4',6'-trichlorophenyl)-3-[(2''-chloro-5''-octadecylsuccinimido)phenyl]amino]-4-(1'''-naphthylazo)pyrazol-5-one by diazo coupling with  $\alpha$ -naphthylamine

IN Stepanov, Petr A.; Yurchenko, Galina A.; Khlypenko, Lyubov N.; Stepanova, Galina S.; Zhurin, Robert B.; Dyuzheva, Inna I.

PA Altajskij gni pi khimiko-fotograficheskoy promyshlennosti, USSR

SO U.S.S.R.

From: Izobreteniya 1992, (19), 104.

CODEN: URXXAF

DT Patent

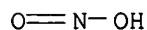
LA Russian

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI SU 1735296	A1	19920523	SU 1990-4821968	19900219 <--
PRAI SU 1990-4821968		19900219 <--		
GI				

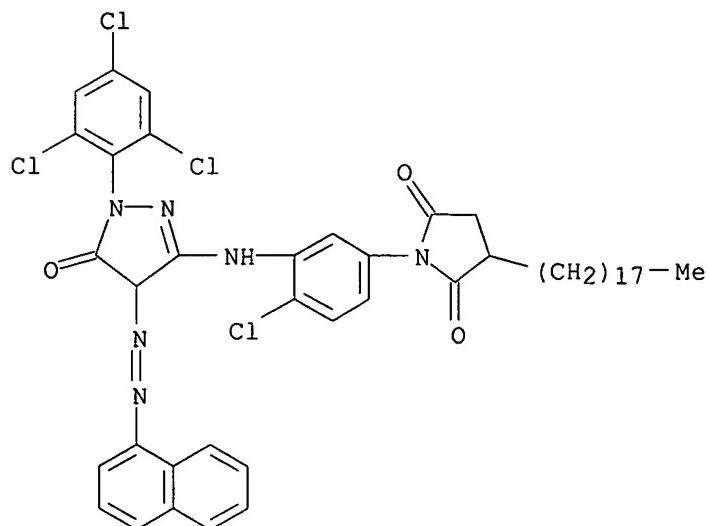
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

- AB The title compound (I) is prepared by reaction of  $\alpha$ -naphthylamine with NaNO<sub>2</sub> in presence of concentrated HCl at 0 to -2°; the resultant  $\alpha$ -naphthyldiazonium chloride is then coupled with pyrazole derivative II in alc. medium in presence of pyridine at 0-35°, in mass ratio  $\alpha$ -naphthylamine:II:pyridine = 0.25:1:(1.07-1.60). 2-Propanol is used as solvent. The process is conducted at 15-25°.
- IT 7632-00-0, Sodium nitrite  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (diazo coupling reagent, for naphthylamine with  
 (trichlorophenyl)[[chloro(octadecylsuccinimido)phenyl]amino]pyrazolone)
- RN 7632-00-0 HCPLUS
- CN Nitrous acid, sodium salt (8CI, 9CI) (CA INDEX NAME)



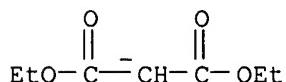
● Na

- IT 70207-91-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)
- RN 70207-91-9 HCPLUS
- CN 2,5-Pyrrolidinedione, 1-[4-chloro-3-[[4,5-dihydro-4-(1-naphthalenylazo)-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-3-yl]amino]phenyl]-3-octadecyl- (9CI) (CA INDEX NAME)



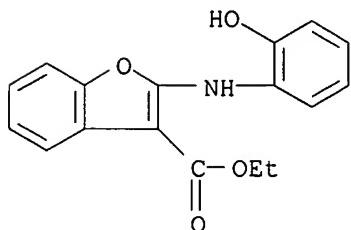
L82 ANSWER 5 OF 5 HCPLUS COPYRIGHT 2006 ACS on STN  
 AN 1982:423561 HCPLUS  
 DN 97:23561

TI Synthesis of benzofuran-2-one derivatives by copper(I)-promoted coupling reactions of o-bromophenol with active methylene compounds  
 AU Setsune, Junichiro; Matsukawa, Kimihiro; Kitao, Teijiro  
 CS Dep. Appl. Chem., Univ. Osaka Prefect., Osaka, 591, Japan  
 SO Tetrahedron Letters (1982), 23(6), 663-6  
 CODEN: TELEAY; ISSN: 0040-4039  
 DT Journal  
 LA English  
 OS CASREACT 97:23561  
 AB o-BrC<sub>6</sub>H<sub>4</sub>ONa with NaCHRCO<sub>2</sub>Et (R = CO<sub>2</sub>Et, COMe, CN) in the presence of CuBr in dioxane at 70 or 80° under N<sub>2</sub> for 5 h gave 93% 3-ethoxycarbonylbenzofuran-2-one, 15% 2-hydroxy-3-acetylbenzofuran, and 34% 2-o-hydroxyanilino-3-ethoxycarbonylbenzofuran, resp.  
 IT 996-82-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (coupling reaction of, with sodium bromophenoxyde, benzofuran derivative by cuprous bromide-catalyzed)  
 RN 996-82-7 HCAPLUS  
 CN Propanedioic acid, diethyl ester, ion(1-), sodium (9CI) (CA INDEX NAME)



● Na<sup>+</sup>

IT 82131-02-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, by cuprous bromide-catalyzed coupling reaction of bromophenoxyde with active methylene compound)  
 RN 82131-02-0 HCAPLUS  
 CN 3-Benzofurancarboxylic acid, 2-[(2-hydroxyphenyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



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